

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number  
WO 2004/044173 A2

(51) International Patent Classification<sup>7</sup>: C12N  
(21) International Application Number: PCT/US2003/036164  
(22) International Filing Date: 12 November 2003 (12.11.2003)  
(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data: 60/425,902 13 November 2002 (13.11.2002) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— without international search report and to be republished upon receipt of that report

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: CIS-PRENYLTRANSFERASES FROM THE RUBBER-PRODUCING PLANTS RUSSIAN DANDELION (*TARAXACUM KOK-SAGHYZ*) AND SUNFLOWER (*HELIANTHUS ANNUUS*)

(222) 222 230 240 250 260 270 280 290 300 310 329

SEQ ID NO: 4 (179) ATSSHEPRHRECHESIR---VWNGNG-----YDNVNGSQAIVK...  
SEQ ID NO: 6 (58) ATSSHEPRHRECHESIR---VWNGNG-----YDNVNGSQAIVK...  
SEQ ID NO: 8 (162) CHSTID...ELASNEVCNN-----QELLEANATGS-STVIQITEN...  
SEQ ID NO: 9 (162) CHSTID...ELASNEVCNN-----QELLEANATGS-STVIQITEN...  
SEQ ID NO: 10 (162) CHSTID...ELASNEVCNN-----QELLEANATGS-STVIQITEN...  
SEQ ID NO: 12 (178) FAKSTS...CAERRDILQREDADS-----VANGVYSDIS...  
SEQ ID NO: 11 (204) S...CHTIG...VK...  
SEQ ID NO: 14 (216) S...CHTIG...VK...  
SEQ ID NO: 15 (158) S...CHTIG...VK...  
SEQ ID NO: 16 (184) N...CHTIG...VK...  
SEQ ID NO: 18 (147) N...CHTIG...VK...  
SEQ ID NO: 20 (161) F...CHTIG...VK...  
SEQ ID NO: 22 (198) F...CHTIG...VK...  
SEQ ID NO: 23 (165) A...CHTIG...VK...  
SEQ ID NO: 25 (198) I...CHTIG...VK...  
SEQ ID NO: 26 (120) I...CHTIG...VK...  
Consensus (222) YSKR EIV AVK S K G  
(SEQ ID Nos 27 and 28)

(57) Abstract: This invention pertains to nucleic acid fragments encoding plant cis-prenyltransferases. More specifically, this invention pertains to a cis-prenyltransferase homolog from latex of the rubber-producing plant species *Taraxacum kok-saghyz* (russian dandelion) and a cis-prenyltransferase homolog from the rubber-producing plant species *Helianthus annuus* (sunflower).